CHARGE NUMBER: 1704
PROJECT TITLE: Supercritical Fluid Processes
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SUPERCRITICAL FLUID SAMPLING

Objective:

Develop sampling hardware and techniques that will generate accurate and reproducible results from the supercritical fluids laboratory apparatus.

Status:

Modification design for converting the magnetically-driven mixer to a recirculation pump is complete. Preparations were made to have the assembly recertified at the original pressure rating when the modification is incorporated. The lab unit was oriented to accept the pump and sample loop.

Plans:

Test the recirculation pump and determine optimum speed for sample flow at minimum pressure drop. Continue solubility studies for calibrating system.

SCE FACILITY:

Operating scenarios for the supercritical fluids facility were received from UDHE and reviewed by the facility project team. Members of the team met with UDHE in Germany to negotiate the final contract terms and to discuss the technical specifications contained in the scenarios. It was decided to have UDHE issue critical breakpoints on design cost and operational aspects prior to making a decision on relaxing the system temperature limits.

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